SUPPLEMENTAL REPORT ON CULTIVATION.

Stage sending our Report to the Secretary, a few thoughts have suggosted themselves as appropriate to assumpting the Report.
It will be observed that the report urges quite strongly cultivation after

But in order to realize the full advantages claimed, two things are essential to success, namely, a good cultivation, and its skillful use, "Never shave with a dull range" is applicable to all tools; the bes

should be selected, and the best at its rine is the cheupest. The culti-vator should be strong, screwed tight, and sharp. A post tool in half ordition, and in the hands of an un-killed man, will do poor work. know of no cuttivator on sale in these islands that we consider is:- lass for use in our care-fields. The cultivator called the "Horse Hos," with some changes that are easily imdo, we consider the best. The necessary change is to substitute the V both in place of the plows and diamond This change makes it a very effectual tool, both to loosen the soil and cut the weeds

Mr. Frank Austin has lately lavented a cultivator which combines, in a measure, the advantages of this changed "those has," and for cutting large weeds, or for use where dilabes or furnous are to be kept open, it is operior, we think; of this, however, we can only speak the not having had any large weeds to destroy, or farrows to be kept open since receiving the cultivator on trial. SKILLFUL USE.

The skillful use of a tool is quite as important as the tool itself. We have seen planters set the cultivator at work without any upportent regard as to whether the cultivator was minuted to its work, in the workman Understanding its use, or how to keep it in order; and the workman not knowing what cultivation meant. His ambilion seemed to be to please his employer by getting over us much ground as possible, having no thought of loosening the soil or killing weeds. One Portuguese man, after starting his male in at the end of the row, was seen to long the sizes upon the cultivator and follow behind some ten or more feet, crack his whip, hallowing at his beast, righting up his cultivator if it fed over, and turning the right the end of the rows. He was apparently enjoying and no doubt congratulating himself on his said in laying angul both mule and cul-tivator to "go it alone." The mule moved steadily, but the cultivator bolded and patched along rike a ship at sea, doing but little good.

We have seen a planter cultivate and conferms until his land get so hard and weedy that are cultivator would do no good, and the plots had to besen up the sell; after which the same worthless cultivator and im-periect cultivation was continued as before, and with the same results, for when the cone got too large for herther cultivation the soil had got again jucked with the males' tramping, and woods were blossoming between the rows. This kind of work is huminggery; it is calification nimed at, but never performed; it increases labor and a demand for laborers, and injures the case. Two men, avo males, and two cultivators at least, were required when one of each would have been angle-if the cultivator had have excepted to its work, and show skill tally handled.

Imperied cultivation and only requires note more and mules, but extra horse also, to complete the work. We think an employer the worning to himself and other an players to allow his work to be done slovenly when it could be done more thoroughly with less labor if more pain-taking and skill were used. It may be thought notedy's tusiness if one or ploys a sprains of labor

but we think, in the present state of the later supply. It is every onployer's business, as it tends to make interest sense, and wages high. Since commencing this pangraph, our Chinamar have demanded two dollars per menth more weges, as one parameters to the east and one to the west of as have effected them. Our much invence upon their present wages. New, as harvesting and planting is over for the season, if most be evolvenestly that is troubling these plantations, and we venture to say that both are afflicted with poor cultivators, and will poorer will vation

to three inches deep, and all words rooted up from row to row. JOHN M. BORNER, Chairman of Committee

J. M. Hower, Esq., Chalcons Committee on Collections.

DEAR SIE, -In reply to your communication, I would say that as my experience of some cultivation has been limited mostly to be Malorano district it would be well, perhaps, to simply give you one method of outdivation on the Inia Phentaina, a pother with my abservations or other plantations in the district, and deductions thereform.

First. We plow the ground well when profile, and, in furtherance of this edges, the limits and I starthornions have believed to petting a steam plant, which has been used with satisfaction on the domest plantation Oming the past season, although time stough less not yet singsed to Judge of its results in comparison with other plewing.

Our method of autilization is by irrigation, hence our formwa must be remparatively level. So we have a man by off level lines across the field from to to feet apart, which are marked out with a conshorse plant.

These lines serve us guides to the furn wing plaws, which come after sed out the formwis from 4) to 5) feet spart, according to the nature and

These farrows are despend with a double mold-board plew, and care must be taken that the furnews are well made in order that there be no to able with the watering afterwards, as any inequalities will cause widely space" to appear in the field later on if not alterated to at the time of

We make our water alliches through the field from 55 to 50 feet apart, according to the nature of the land, hill-sides requiring eithers maker together than a gentler sleps. This might seem a worse of ground, but cur experience is that if they are wider than Is feet we have mouthe in getting the water evenly distributed, for its the came unitares it falls down, almost filling the furnews with stalks and leaves, thus retarding the flew of water in a long furrow, scaling the stall next the din b to much (which cutses a waste of water-a serious multip hous, as our water supply is ilmited,, and oftentimes not reaching the other end at all. Again, if the row is long, and the came hard to welk through, the british offier end, hence we have another cause of "dry spots," a source of an-

The selection of good seed I-consider as very important. And although the practice has prevailed, to a certain extent, on the islends of using itier or poor ratours, furnishing but one or two entitings for seed, yet it is being abundanced in this district, and the best came used for that purpose, thus conteming with nature's tembing, which is that, other things being equal, the best and most vigorous seed will reproduce the best and most vigorous plant.

Locke, Wigner & Harland, in their "Sugar and Refining" say, p. 61, **None but the healthlest and most vigorous cases should Neglect of this point will result in discuss and detarioration."

The sugar beet planters are alive to this subject, and by systematic selection have so improved the sugar beet that the less varieties yield juice equal to cane-juice, standing at a density of 10 Baums. On pure 100 of the same numberity, we see that "Experience has shown that roots tich in sugar transmit their richness to the next generation, whilst seed from light, ill-shaped roots poor in sugar, produce similar inferior roots."

Scrabby rations have been used for seed from motives of economy, but In fact they are dearer than good plant-cane, if one takes into considera-Bon their impoverishment of the soil; less of the land for pasturage during their growth; the number of extra new required to cut a give amount of seed from them; and more than all, the deterioration of the next crop on account of the poor seed.

And although such seed, if planted on rich land, and gives good care,

will produce a heavy yield, yet, I think that better seed with like conditions would produce a better crop.

If the best cane is used it does not take many agree to furnish seed for an ordinary plantation, as the ratio is only about one non-to-twenty in cane yielding five tons per acre.

We encleaver to water the case the same day that it is planted, and continue to irrigate it at least once every three stays until it is well up, after which we water it once a week; then irrigate it on an average of about once in ten days throughout the season.

Of fertilizers, I would say that we have found boos-meal worthless.

Experiments, however, are being tried on Grove Hanch Plantation with other fertilizers; but it is too soon, as yet, to judge of the results.

Our weeding is done with hand-loses. We tried horse-enlityating, but

gave it up, as it filled the farrows too much, exusing a waste of water in

The case should be well stripped of dead leaves, and the authority quoted above says, p. 66, that this "cannot be too strongly invision upon, as it admits to the plants that abundance of light and air which is also lutely essential to the production of a heavy crop of sugar." And realizing the importance of this, we endeavor to strip the case before it lies down; but this is not always practicable. We strip the case at least oner, however, and although a second stripping would be beneficial, yet, considering the high cost of later and the low price of sagar, we think that the sugar gained by the extra stripping in this district would not pay for the extra laber.

We stop infigating about November 1st of the following year after planting, and goldd from December to July.

In this district we have about given up calsing rations, as we find that after buryesting our came the mature of the soil I- such that, with the brighting it packs hard, so that rations would not do well unless the ground should be be sented, whileh, it done, would destroy the symmetry the furrows; and as the old roots protrude from the ground, it would ake more water to irrigate a given number of acres of rations than It could take to irrigate the same number of acres of plant-cane—an object to us, for, as I have before said, our water supply is limited. There are exceptions to the above, however, and we raise rations a

our lower fields, where the nature of the soil is different, being of a black andy form, which does not peak hard, as is the case with our red soils. Yours truly, Pain, October 9, 1885.

REPORT ON LEGISLATION.

Hoxotern, October 9, 1885. To the President of the Planters' Labor and Supply Company:

Sin,-We have the honor to make the following report as a Committee on Legislation in connection with the requirements of the planting in-In considering this subject, we have epicavored to avoid all questions

that do not clearly affect the said planting interest, as it is not out pro-vince to suggest any general legislation, nor such as would be in the special interest of commerce. We are aware that frequent or nunecessary changes in the laws affects ng commerce and agriculture are inconvenient and undesirable; and it

is of hir greater importance that the existing laws should be well understood, and well executed by those by whom and for whom they are administered, then that they should be made the subject of continual amendment and discussion by the Legislature. Acting upon this principal, we are not prepared to advocate any fresh

logislation upon the subject new under review; but we wish to bring very complicately before the association the importance of seeing that the existing laws, and especially those in connection with the laborers shall be correst out so well that they shall be held in respect by planters by laborers, and by those outlons and Governments upon whose good-will so largely depend for our later and supply.

We believe that the present laws are generally satisfactory, or we should long ago have had remonstrances or refusals of imaggration from some of those nations which have hitherto favored immigration to this We cannot, however, close our eyes to the fact that grave complaints

have arisen, and have influenced other Governments adversely to our merests; and that, whereas, they were once disposed to encourage immigration, they are now inclined to look with suspicion upon the mode which the immigrants are freated or neglected here. It has long been the beact of this Kingdom than special confidence was used by the Great Powers in the administration of Justice in our

-: whilst many cations, far superior to this in size, population, and cantinguity of civilization, inter had no submit to the establishment of cassaur (carris, and other forms of foreign interference,

A law years ago a great cry prose against the Importation of East Indian Cooles because it was alleged that Great Reinin would demand the eractment of a law providing for the appointment of a British subject is protector of such lumnigrants, and upon that ground the scheme who rise down. Other Governments assented to their subjects coming here without quarting any fresh ametaseuts; but, for some reason, steps are now being taken for the appelatment of foreigners as protecters of immigrants, without even the formality of asking that laws be introduced to

Such a demand car only be regarded as a reproach to the pation, and the complishes with the demand as an act of intuitiation. It is virtual assurance can car reputation for the administration of justice in the local Courts is raid as good as it was. We do not say that the Administration likel; has deteriorated, but that it is clearly unequal to the demands now made again it. And, is a matter of fact, we know that the construction of the Police and District Courts does not possess the confidence of those spon whose good report the judicial reputation so largely depends; here we touch the point of beg lation. The compositively resent Act, which placed the appointment of negistrates which the possibility of compt negativities has inevitably lowered the standard of public Becare in the amplituates of appearance. The minimistration of law must be also intelly pure, and any arrempt to bring the Courts of the Kingdom within the reach of potical influences will necessarily dim the lastre and lower the standard of Hawdian Judicial purity. Neather Sovereign nor Minister, nor legislator can prevent this result, and therefore we carnestly protest against any tampering, however well intended, however appar-ently fairful, with the notalization of negistrates, or procedure of the Courts of Law.

We believe that a resolute attempt to retrieve and improve our dansaged regulation, would yet be succeeded; but it must be resolute, and free from partison strile. We recommend that a Royal Commission be inical, to take into consideration the present status of the police and strict courts, and to make such recommendations as shall seem test for a establishment of the and Courts on a lasts that will give confidence to all classes in the Kingdom as well as to all other nations with whom we

such a Commission should be composed of the ablest men that can be found without regard to party or politics, and if the Hawatian Naton can continue to escape from the demand for the establishment of Consular Courts, such as have been imposed upon China, Japan, Turkey, Egypt, and other nations, and yet maintain the increased intercourse with for-eign Governments and solvers that every year develops, it will be an immense addition to the prestige which Hawaii has hitherto enjoyed, by international consent.

It is impossible to regard the recent action of the Japanese Government, however it may be softened and smothered by vertal explanations, as other than an indignity to the Hawatian Nation; and compliance with of wrong and neglect. It may be to our interest and convenience least, but the stammed and the submission do not redound to our intland credit; and in the particle desire to see the National reputati plined beyond suspicion, we recommend that steps be taken to ask for the appointment of the aforesaid Reyal Countries lon.

We have the bonor to remain Sir, Your obedient Servants

THE H. DAVIES, S. B. DOLE, Committee on Legidation.

REPORT OF COMMITTEE ON MACHINERY.

Hovorury, October, 1885.

To the President and Members of the Planters' Labor and Supply Company: Your Committee on Machinery are unable to present many new lestures, although the past year has been remarkable for the stendy introducion of improved machinery into a great number of our sugar houses. THE PURNACES.

Jarvis and others which a year ago were reported with varied and omewhat doublful success are now on the whole regarded as inprovements, although in some locations the application of the Jarvis inciple is regarded as dometful probably in consequence of the chimney ing placed near rocat-jetting spars of hill-sides and creating accomplisa-I upper air corrects and seriously interferring with what wo der other electricities are a good draft; has may assemnt for their being reported a success one day and a failure the next day.

THE SHOKE CONSUMERS OR HOT ARE PIPES

Introduced into the brick work of an ordinary steam boiler is in our pinks more to be commended than the Jarvis Furusce, because but little alteration is necessary, and but little cost incurred in their introduction. That they are effective is beyond a doubt as trask brought direct from the rathers is burned on continue grate turn generating an abandance of steam and consuming its own samke. This alone will commend its use by all users of sleams, laying aside the comparative cost between the two classes.

THE MACERATION OR DOUBLE CRUSHING PROCESS.

Perhaps the most striking advance made during the past year is the double trashing or five roller mill. The first three of these rollers are constructed in the ordinary manner and the second pair placed for esough, away so as to admit of a both or speny of het water on the track provious to outering the final exushing, but if desired the lath or spray can be dis-

per set with.

Mr. C. C. Kennedy, the manager of the Wairkes Mill of Hillo, writes as follows: "The automatic feed for the two roller mill is the secret of success with the double crushing," and says further, "that after the first mill's good grinding, he can get with not water from the second mill 16 to 18 per cent, additional juice," and without water and grinding the best he could do with the three roller mill, he gets from 43 to 16 per cent, additional, with the juice | 16 f degree higher density than what the juice stands at | C. BREWER & CO. from the first mill. In speaking of the trasu, Mr. Kennedy says, whe'll leaves the second mill it is dry and looks like objes and sawdust from a planing mill." The performance of the above mill has been witnessed by a great number of our members and the verilet is numinous in its favor. It is hermer attested to by the fact that the Hossinia Iron Works is working its fullest capacity manufacturing these double crushers. THE DOUBLE EFFICE. As an evaporating agent this apparatus is becoming very popular and Per Bark 'AMY TURNER' seems to be preferred to the trippic effect by most practical sugar-boilers.

his value as an economic agent consists in the fact of its using up and unilizing exhaust and other steam that only a few years ago was wasted

in the air and unfortunately in too many places is done so to this day, but when we fully realize the gain on the enal bills, the slight but increased amount of manufactured sugar, and the enchanced polarization of our varfour grades, then we predict for the double and tripple effects a place in all well organized sugar estates. That the gain is being realized DUE JULY 1st, 1885 is undoubted judging from the number of alterations during the past year and in which this apparatus has been introduced. DIFFUSION

Will most probably be our next step forward and when the time comes as we think it surely will, we must be prepared to fall in lined. Distant though we are from the great centres of trade we cannot afford to be left behind. Franklin Stove Cost in Casks, In the march of progress. We see that little by little the difficulties are belog overcome and that sugar cane can be and is to-day successfully converted into signal by the process of diffusion. The question of its adapta-bility has given place to one of fucl, which to us on these Islands is one of serious importance, but which will not, we believe, be fatal to the ultimate introduction into this Kingdom of the Diffusion Battery. Respectfully Submitted,

Rour, HAISTEAD, Chairman, W. F. ROWELL.

REPORT OF THE COMMITTEE ON FREIT CULTURE.

To the President of the Planters' Labor and Supply Company:

The promotion of fruit culture engages our attention as a means not only of making our islands the delightful Edens they are calculated to become, but also of opening new avenues of wealth. The fact that it California this inclustry has lately begun to rival these of mining and of FARMERS BOILERS he culture of cereals, and that already on only one of our islands the culture of bananits has become next to that of sugar case, our most profitable agricultural industry, and that many of our fruits might be cultivated by the square mile where now they are barely cultivated at all, indicate that much may be done to make the raising of tropical truits profitable here.

Your committee have chiefly inquired what can be done in the way of

introducing new varieties of fruits; and what can be done in exporting such fruits as we can successfully cultivate.

The introduction of foreign fruits has been so largely accomplished

through private enterptise, and notably through the former efforts of Dr. Hillebrand under Government patronage, as to assure us that nearly everything grown in the tropies can be made to thrive in our Islands. Much may be done in obtaining better varieties of the fruits already introduced. It has been remarked that guilts of loreign varieties of oranges and lemons can be introduced to advantage, bearing early and appearing as thirtly as the native stock, and that probably Chinese orange scedings builded from these varieties would also do well. There is little doubt but that better varieties of manges than those common here could be easily introduced. A variety from Manila has already been started in Honolulu, and several frees have began to beer. Some of the 70 varieties of banams said to grow in Caba, and of the immease number of varieties found by Stanley on the Corge, and of the varieties in the Micronesian Islands, would be interesting additions to our Musee.

A large number also of cruits not yet known in our islands might be obtained by exchanges with the managers of Botanical Gardens. Some fruits that will not thrive in one locality neight thrive in another. In the various conditions of climate, soil, and altitude above the sea,

It is probable that the Mangassteen and the stronge fruit called the Dirion, described by the distinguished Wallace as "The King of Fruits," might be made to thrive in the rich will and not and shellered regions of Burkets, Lime, Wash Boards, Kozu, Hawaii.

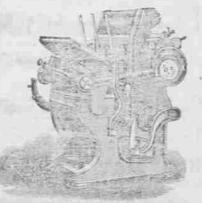
The cultivation of fruits of the temperate zone has not yet been fairly to-bel. These fruits are chiefly Resiscene, as those of the tropics are chiefly Myrissene. They were originally introduced into Europe from the mild climate of Armonia, Asia; and after centuries acclimated. About four years ago some of the leading varieties of these traits were planted at Olinda, Mani, at an elevation of 1,000 feet above the sea. They have made a healthy, though slow growth. Blackberries there have grown as well and borne as abundantly as in California. Respleries have lately been planted and are growing well. The English Walnut and the Japanese Chestnut grow remarkably well, and probably might be profitably raised in the upper parts of our forests and on the high plains of Hawall.

Apple trees are said to been abundantly at Uhipalakua, Maui. It seems probable that here on the borders of the tropical and temperate zones we may at different altitudes above the set successfully cultivate both the Researed Myztle fruits.

The chief requisite for the promotion of our fruit culture is a facility for marketing. It should engage our attention to further the drying of fruit by the Alden process, the canning of fruit by the most economical methods, and also the expecting of fruit by the vessels plying between our ports and America. If instead of the small fleet of two masted vessels carrying sugar there were a low steamers to add to their cargoes bananas, pineapples, avosados, and other fruits to be gathered from all our Islands, and to take the more perishable fruits by large refrigerators our fruit culture might become a very important industry. J. M. ALEXANDER.

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